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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/759,540	01/12/2001	Subramanian Srinivasan	CIS00-3839	1172

7590 11/23/2004

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EXAMINER

JARRETT, SCOTT L

ART UNIT	PAPER NUMBER
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3623

DATE MAILED: 11/23/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/759,540

Applicant(s)

SRINIVASAN, SUBRAMANIAN

Examiner

Scott L. Jarrett

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12 January 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-34 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-34 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Specification

1. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

2. The abstract of the disclosure is objected to because it is longer than 150 words. Correction is required. See MPEP § 608.01(b).

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 1-10, 15-25, 30 and 33 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite and failing to point out and distinctly claim the subject matter which the applicant regards as the invention.

Regarding Claim 1, 15, 30 and 33, claims 1, 15, 30 and 33 are indefinite as to scope in the use of the term "may" in the phrase "may distinguish." Claims 1, 15, 30 and 33 are therefore rejected as being vague and indefinite.

Claim Rejections - 35 USC § 101

5. Claims 1-14 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

The basis of this rejection is set forth in a two-prong test of:

- (1) whether the invention is within the technological arts; and
- (2) whether the invention produces a useful, concrete, and tangible result.

For a claimed invention to be statutory, the claimed invention must be within the technological arts. Mere ideas in the abstract (i.e., abstract idea, law of nature, natural phenomena) that do not apply, involve, use, or advance the technological arts fail to

promote the "progress of science and the useful arts" (i.e., the physical sciences as opposed to social sciences, for example) and therefore are found to be non-statutory subject matter. For a process claim to pass muster, the recited process must somehow apply, involve, use, or advance the technological arts.

Regarding Claims 1-10, claims 1-10 only recite an abstract idea. The recited method for processing changes to orders in an order processing system does not apply, involve, or use the technological arts since all of the recited steps can be performed in the mind of the user or by use of a pencil and paper. The claimed invention, as a whole, is not within the technological art as explained above claims 1-10 are deemed to be directed to non-statutory subject matter.

As to technological arts recited in the preamble, mere recitation in the preamble (i.e., intended or field of use) or mere implication of employing a machine or article of manufacture to perform some or all of the recited steps does not confer statutory subject matter to an otherwise abstract idea unless there is positive recitation in the claim as a whole to breathe life and meaning into the preamble. In the present case, none of the recited steps are directed to anything in the technological arts as explained above with the exception of the recitation that the method is an "order processing system." Looking at the claims as a whole, nothing in the body of the claims recites any structure or functionality to suggest that a computer performs the recited steps. Therefore, the terms discussed are taken to merely recite a field of use and/or nominal recitation of technology.

Regarding Claims 11-13, claims 11-13 only recite an abstract idea. The recited method for comparing objects does not apply, involve, or use the technological arts since all of the recited steps can be performed in the mind of the user or by use of a pencil and paper. The claimed invention, as a whole, is not within the technological art as explained above claims 11-13 are deemed to be directed to non-statutory subject matter.

Regarding Claim 14, claim 14 only recites an abstract idea. The recited the method for comparing orders in an order processing system does not apply, involve, or use the technological arts since all of the recited steps can be performed in the mind of the user or by use of a pencil and paper. The claimed invention, as a whole, is not within the technological art as explained above claim 14 is deemed to be directed to non-statutory subject matter.

As to technological arts recited in the preamble, mere recitation in the preamble (i.e., intended or field of use) or mere implication of employing a machine or article of manufacture to perform some or all of the recited steps does not confer statutory subject matter to an otherwise abstract idea unless there is positive recitation in the claim as a whole to breathe life and meaning into the preamble. In the present case, none of the recited steps are directed to anything in the technological arts as explained above with the exception of the recitation that the method is an "order processing system." Looking at the claims as a whole, nothing in the body of the claims recites any

structure or functionality to suggest that a computer performs the recited steps.

Therefore, the terms discussed are taken to merely recite a field of use and/or nominal recitation of technology.

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 1-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over QAD Inc.'s MFG/PRO eB and eQ Order Management solutions as evidenced by QAD.com: Application Datasheets, Sales and Distribution, and Product pages, QAD Storefront Informational White Paper, A solution space approach white paper and Collaborative Applications Power B2B Transactions (Manufacturing Systems supplement) in view of Orr et al., U.S. Patent 5,191,534.

8. Regarding Claims 1, 15, 26, 30 and 33 QAD, Inc. teaches a collaborative and flexible order management (processing) system (Collaborative Applications Power B2B Transactions, Paragraphs 2-3, Page 1; Last 4 Paragraphs, Page 5; Paragraph 3, Page 7).

QAD, Inc. further teaches the support of Electronic Data Interchange (QAD.com Application Data Sheet – Sales and Distribution; Page 1, EDI support). It is old and

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well known in the art that Electronic Data Interchange (EDI) provides a standardized means for sharing data/information critical to the successful management and execution of order processing/management systems. EDI includes robust support for change order processes insuring an enterprise can meet its customer's needs. More specifically EDI provides a means for communicating purchase orders and change orders; EDI standard implementations for change order processing include:

- ANSI ASC X12 (message types 850_855 - Purchase Order & Purchase Order Acknowledgment and 860_865 - Purchase Order Change & Purchase Order Change Acknowledgment) and;
- UN/EDIFACT: ORDERS (message types Purchase Order, ORDCHG - Purchase Order Change and ORDRSP - Purchase Order/Purchase Order Change Acknowledgment).

It would have been obvious to one skilled in the art at the time of the invention that the collaborative order management system as taught by QAD, Inc. would have benefited from the ability to process changes to orders as evidenced by QAD Inc.'s support for EDI. QAD, Inc's support of EDI standards enables the MFG/PRO eB and eQ Order Management solutions the ability to participate in industry supply/value chains wherein EDI provides well-known industry standards and practices for processing orders and change orders.

QAD, Inc. is silent on the process or steps utilized by their eB and eQ Order Management solutions for processing changes to orders.

Orr et al. teaches a system and method for controlling, monitoring and integrating change orders (a system and method for change order management in a manufacturing enterprise, Abstract) wherein change orders are modeled as composite objects (engineering change object, affected object, Column 2, Lines 3-27). More specifically the change orders include details on the impact on the changes to the composite change order as well as previous versions of the change order and are propagated throughout the order management system.

More specifically Orr et al. teaches the steps involved in (method for) processing changes orders (engineering changes) comprising the steps of:

- initiating (receiving) a request to change an existing order (Column 6, Lines 58-68; Figure 3);
- generating (capturing) a change order (requested change), the change order containing the changes to the order and the existing order (engineering changes database, Column 2, Lines 3-8);
- analyzing (comparing) the change request (order) and the existing (original) order (Affected Item, Column 1 Lines 21-24; Column 2, Lines 23-58; Column 4, Lines 56-68; Figure 8B, Table 14; Claim 1) and;
- providing the result of the change order and existing order comparison to one or more individuals or systems such that the recipient can distinguish the differences

between the change order and the existing order (propagating the released changes into production, Column 1, Lines 43-47; Column 11, Lines 38-39; Claim 1).

It would have been obvious to one skilled in the art at the time of the invention that the collaborative order management system, including support for change order processing, as taught by QAD, Inc. would have benefited from the steps for processing changes to orders as taught by Orr et al. thereby providing a structured method for controlling, monitoring and integrating change orders (Abstract, Lines 1-3) in an enterprise, capturing change order history/versions (Column 7, Lines 46-54), and insuring items affected by changes to the order are properly understood and communicated (Column 1, Lines 40-54; Column).

9. Regarding Claims 2 and 16 QAD, Inc. teaches an object-oriented order management system which utilizes common object-oriented design patterns, tools, architectures and technologies including but not limited to eXtensible Markup Language (XML), Java and Enterprise Java Beans (Collaborative Applications Power B2B Transactions; Page 2, Paragraph 6; Page 3, Paragraph 2; Page 5, Paragraph 1).

QAD, Inc. is silent on the process or steps utilized by their eB and eQ Order Management solutions for generating changes orders.

Orr et al. teaches a change order management system and method that:

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- utilizes an object oriented architecture (approach; Column 2, Lines 3-6);
- represents a change order as a composite object (Engineering Change, EC, and Master Engineering Change (MEC); Affected Item (AI), Column 2, Lines 5-38) and;
- the step of generating a change order containing the changes to the existing order further comprises the steps of:
 - copying the existing order (Column 7, Lines 55-58) and;
 - replacing values of any attributes (affected items) in the change order with the new values for those attributes (Column 2, Lines 38-43).

It would have been obvious to one skilled in the art at the time of the invention that the object-oriented collaborative order management system as taught by QAD, Inc. would have benefited from the steps for processing changes to orders, including generating a change order comprising of the steps discussed above, as taught by Orr et al. thereby providing a structured method for controlling, monitoring and integrating change orders (Abstract, Lines 1-3) in an enterprise, capturing change order history/versions (Column 7, Lines 46-54), and insuring items affected by changes to the order are properly understood and communicated (Column 1, Lines 40-54; Column).

Official notice is taken that it is old and very well known in software engineering:

- that objects are defined as a data structure together with a collection of functions (methods) that act on, or refer to, that data structure;

- composite objects are a common design pattern and are defined as objects that contain other objects. A common example is that a drawing object may be composed of graphic primitives/objects, such as lines, circles, rectangles, text, and the like. The composite design pattern is used so that one can manipulate composite objects exactly in the same manner as one manipulates primitive objects.

- there exists a plurality of means for creating new (modified version of existing objects) objects based on existing objects including but not limited to the use of deep copy, constructs a new compound object and then, recursively, inserts copies of the nested objects found in the original compound object into the new compound object, and shallow copy, constructs a new compound object and then inserts the same objects into in new object that are contained the original contains. These copy-then-modify techniques insure that only the minimum amount of time is spent in creating a modified version of the original object (by only changing the modified values, instead of copying the values one at a time) and insure that any complex relationships or attributes associated with the original object are carried over to the new modified version of the object.

It would have been obvious that both the object oriented systems and methods as taught by QAD, Inc. and Orr et al would have benefited from and used a plurality of object-oriented techniques and/or design patterns for generating change orders further wherein the modified change order is created by copying the original order object and then modifying only the order object attributes (values) which have been modified

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thereby insuring that the creation a change order object is conducted in an efficient manner.

10. Regarding Claims 3 and 17 QAD, Inc. teaches an object-oriented collaborative order management system as discussed above, including the ability to place a hold on order (Automatic or manual hold; QAD.com Application Data Sheet – Sales and Distribution; Page 1).

QAD, Inc. is silent on the process or steps utilized by their eB and eQ Order Management solutions for receiving changes orders.

Orr et al. teaches receiving a change to an existing change order further comprises the steps of:

- receiving identification of an existing order to be changed (EC unique identifier, Column 2, Lines 11-21; Column 10, Lines 21-35 and 65-68);
- receiving notification (signal) indicating the new value(s) for the requested changes to the order (Affected item, Column 2, Lines 25-37 and 53-57; Claim 7) and;
- wherein the step generating a change order based on the existing order comprises:
 - for each object in the existing order for which there is an indicated change performing the following steps:

i) copying the original order object to create a new change order object (Column 7, Lines 55-58) and as discussed above and;

ii) modifying the change order object by assigning the values of the requested changes (Column 2, Lines 38-43) and as discussed above.

It would have been obvious to one skilled in the art at the time of the invention that the collaborative order management system, including the support to place a hold on an order at any point in time, as taught by QAD, Inc. would have benefited from the steps for receiving and processing a change order as taught by Orr et al. thereby providing a structured method for controlling, monitoring and integrating change orders (Abstract, Lines 1-3) in an enterprise.

Official notice is taken that it is old and very well known in software engineering:

- that there exists a plurality of means for creating new objects based on existing objects as discussed above;
- the use of program control structures (for, while, if-then-else, etc.) to iteratively/recursively process a set of objects/information efficiently;
- that it is useful to have objects recognize and signal when changes have been made to its attributes. Such changes being recognized through the use of simple logic; comparing the new value to existing value and if the values are not the same setting a change attribute/flag and/or sending a signal (message or method call or any of a plurality of signal means). Further it is standard software engineering practice to include

this comparison logic in the get/set methods of an object, that exist to provide an indirect external interface to the object's internal attributes and;

- the use of an observer design pattern wherein the pattern defines a one-to-many dependency between a subject object and any number of observer objects so that when the subject object changes state (attribute values), all of the associated observer objects are notified and updated automatically. The observer design pattern is typically implemented so that a system remains decoupled thereby allowing the use/reuse of subject and observer objects independently.

It would have been obvious to one skilled in the art at the time of the invention that the collaborative order management system as taught by QAD, Inc. and steps for receiving and processing a change order as taught by Orr et al., would have benefited from and used a plurality of common and very well-known software engineering techniques and design patterns including: providing a signal/flag (through the implementation of the observer design pattern or get/set methods) to indicate only the modified attributes of a change order thereby providing a means for efficiently comparing order objects and the use of control structures (for repetition) to iteratively/recursively process the composite change order objects thereby providing an efficient means for processing a plurality of complex change order requests.

11. Regarding Claim 4, 8, 18 and 22 QAD, Inc. is silent on the process or steps utilized by their eB and eQ Order Management solutions for comparing changes orders.

Orr et al. teaches the comparison of change order requests as discussed above and further comprising the steps of (capturing change order history/versions; Column 7, Lines 46-54):

- for each object in the existing order for which there is an indicated change generating a change order results that identifies:

- i) the new value of the attribute and;
- ii) the existing value of the attribute.

It would have been obvious to one skilled in the art at the time of the invention that the collaborative order management system as taught by QAD, Inc. would have benefited from the steps for analyzing (comparing) a change order as taught by Orr et al. thereby providing a structured method for controlling, monitoring and integrating change orders (Abstract, Lines 1-3) in an enterprise, capturing change order history/versions (Column 7, Lines 46-54), and insuring items affected by changes to the order are properly understood and communicated (Column 1, Lines 40-54; Column).

Official notice is taken that it is well known in the art of software engineering that when modifying an item (object, attribute, etc.) it is common software engineering practice to provide a means for capturing the evolution of an object or transaction, more specifically to capture snapshots of the item before and after modifications are made or transactions take place. The snapshot process can be performed at the object level by

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simply storing the before and after values or even a full copy of the previous (unmodified) object thereby providing a simple mechanism for rolling back unwanted changes/modifications.

It would have been obvious to one skilled in the art at the time of the invention that the object-oriented collaborative order management system as taught by QAD, Inc. would have compared the changes requested to the existing order, iteratively comparing each of the requested changes and for each requested change capturing the new and existing values thereby providing an easy way to rollback any changes request which are no longer desired or applicable.

12. Regarding Claims 5, 6 19 and 20 QAD, Inc. is silent on the method and timing associated with comparing a change order to the existing order.

Orr et al. teaches the steps for comparing order objects as discussed above.

Orr et al. is silent on the timing associated with the comparison of a change order.

Official notice is taken that it is well known and an accepted practice that when performing a series of operations whose ultimate goal is to produce a result (document, numerical value, method call, etc...) to either generate that result concurrent with the

performance of each iterative step or after all the steps have been completed; the decision of when to generate the result being an obvious design choice.

For example one might process a file containing a plurality of purchase orders wherein each order is represented as a new line of text each line containing the pertinent order information. One of the steps being performed iteratively on the file would be to parse out each of the individual orders so they can be fulfilled while concurrently generating a report showing real-time (intermediate) inventories for the items being ordered thereby allowing another system or person to monitor real-time inventory levels. However one could just as easily generate the results after the file processing has been completed choosing to display only the final inventory levels.

It would have been obvious to one skilled in the art at the time of the invention that the collaborative order management system as taught by QAD, Inc. and in view of the teachings of Orr et al. could have generated the change order results concurrent with the step of comparing the change order to the existing order (providing real-time reporting of each change order) or after comparing the change order to the existing order had (not wasting processing time on displaying intermediate results) the choice of when to generate the change order result being an obvious design choice.

13. Regarding Claims 7 and 21 QAD, Inc. does not teach the specific structure/design of the order objects used in the MFG/PRO eB and eQ order management system.

Orr et al. teaches an object oriented system and method for controlling, monitoring and integrating change orders wherein change orders are modeled as composite objects as discussed above.

It would have been obvious to one skilled in the art at the time of the invention that the object-oriented collaborative order management system as taught by QAD, Inc. would have benefited from would have benefited from the representation of change orders as composite objects as part of a change management system in view of the teachings of Orr et al. thereby providing a structured method for controlling, monitoring and integrating change orders (Abstract, Lines 1-3) in an enterprise, capturing change order history/versions (Column 7, Lines 46-54), and insuring items affected by changes to the order are properly understood and communicated (Column 1, Lines 40-54; Column).

Further it would have been obvious to one skilled in the art at the time of the invention that the use of well-known and accepted software engineering design patterns, specifically the representation of complex objects (existing or change orders) as composite objects would have provided a means for simplifying the complexities of orders consisting of a plurality of affected items wherein each affected items further consists of additional affected items or dependencies or parts (each item being represented by a primitive or composite object as required).

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14. Regarding Claims 9, 10, 23-25 QAD, Inc. teaches the use of EDI as part of their order management system wherein EDI provides a means for exchanging a wide variety of data, including but not limited to purchase orders and changes to purchase orders as discussed above. QAD, Inc. further teaches the use of XML as discussed above.

QAD, Inc. is silent on the method for comparing a change order to the existing order, the generation of a change order result and the format of a change order result.

Orr et al. teaches a system and method for controlling, monitoring and integrating change orders as discussed above.

Orr et al. is silent on the format of a change order result.

Official notice is taken that it is old and well known in the art that EDI provides for the inter-organizational electronic exchange of business documents in a structured, machine-processable format. EDI standards permit direct computer-to-computer exchange of formatted business transactions between business partners and makes it possible for organizations to generate, receive and process large volumes of information, swiftly and with limited human intervention. EDI provides a "language" specially designed for the processing, definition and presentation of text (markup language).

Further it is well known that at either end of an EDI transaction is a translation component which converts the standard EDI format for the transaction into the business specific format necessary for completion of the transaction thereby enabling companies to transact in a common "language" without having to convert all their existing legacy systems to the common language thereby saving time, effort and money.

It would have been obvious to one skilled in the art at the time of the invention that the collaborative order management system as taught by QAD, Inc. and further in view of the change order processing method as taught by Orr et al. would have benefited from generating the change order result in any of a plurality of formats including EDI messages and XML documents in order to facilitate the system's ability to participate in a supply chain through the utilization of well-known document formats.

15. Regarding Claims 11-13, 27-29, 31-32 and 34 QAD, Inc. does not express teach the comparison of order objects.

Orr et al. teaches the analysis (comparison) of change orders objects as part of a change order processing system as discussed above.

Official notice is taken that there exists a plurality of methods for comparing objects (invoking comparison logic, generating results and indicating differences from the comparison), copying existing objects and assigning new values to object attributes

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are all old and well known in the art of software engineering as discussed above.

Further it is well known in the art that any comparison of two or more objects would have necessitated a means for identifying the objects which are to be compared prior to any comparison taking place.

It would have been obvious to one skilled in the art at the time of the invention that the collaborative order management system as taught by QAD, Inc. and further in view of the change order processing method as taught by Orr et al. would have benefited from and used a plurality of well-known software engineering techniques and design patterns to facilitate the comparison of order objects.

16. Regarding Claim 14, claim 14 recites similar limitations to Claims 1, 2 and 11-13 and is therefore rejected using the same art and rationale as applied in the rejection of Claims 1, 2 and 11-13.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- Shavit et al., U.S. Patent 4,799,156, teaches a interactive market management system that allows for purchase order entry and purchase order changes by the customer.

- Wojcik et al., U.S. Patent 5,666,493, teaches an order management system for the efficient management and fulfillment of customer orders. More specifically Wojcik et al. teaches the receipt, generation, maintenance and processing of customer orders.

- Wojcik et al., U.S. Patent 5,758,329, teaches a real-time order management system.

- Johnson et al., U.S. Patent 6,067,525, teaches an order management sub-system of a sales force automation method and system wherein changes to an order are captured, understood and acted upon.

- Kennedy et al., U.S. Patent 6,055,519, teaches a collaborative order management system and method wherein the buyer-seller collaboratively reach an order/purchase agreement.

- Athavale et al., U.S. Patent 6,539,386, teaches a system and method for modifying a customer order.

- Cornell University, Creating & Releasing Purchase Order Changes for Standard Orders, teaches a plurality of well-known types of change orders and the

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processes by which such changes are to be handled as part of the Cornell University purchasing system.

- Marchal, Applied XML Solutions, teaches the use of eXtensible Markup Language (XML) as a means for enabling collaborative eCommerce systems wherein XML enables businesses to interchange information a format best suited for their systems and business processes.

- Gamma et al., Design Patterns, teaches the use of object-oriented design patterns which are commonly used in system and software development. More specifically Gamma et al. teach the common use and structure of Comparator, Composite, and Observer design patterns.

- Stultz et al., Demystifying EDI, teaches the use of Electronic Data Interchange as a highly structured data communications system used to exchange transaction data including purchase orders, change orders, invoices, electronic catalogues, and bid documents.

- Pearton, Michael, et al., Making real time relevant (Delta Motor in South Africa uses supervisory control to line real-time assembly data with ERP) teaches the placement of orders into an order entry system, manufacturing production planners analyzing the orders received and placing orders on hold, "for whatever reason" as a result of their analysis.

- Kumar, Managing Changes in Large Programs, teaches the effect of changes and the need for change management.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Scott L. Jarrett whose telephone number is (703) 305-0587. The examiner can normally be reached on 8:00AM - 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hafiz Tariq can be reached on (703) 305-9643. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SJ
11/15/2004



TARIQ R. HAFIZ
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3600